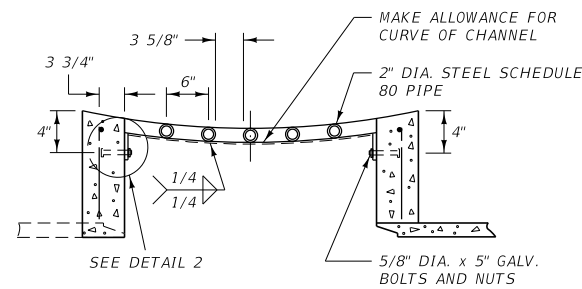
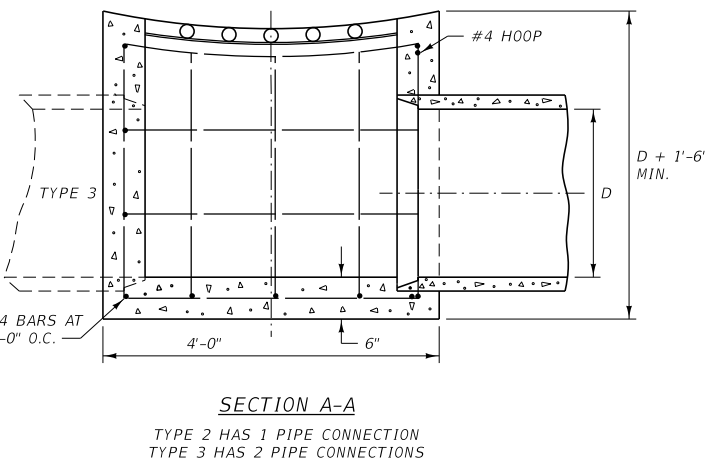
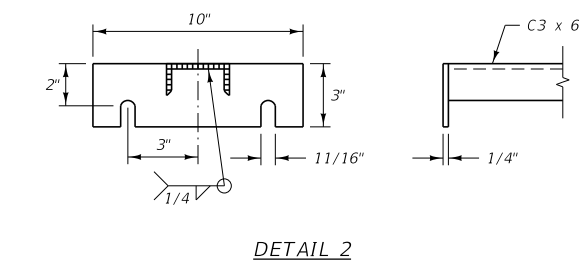
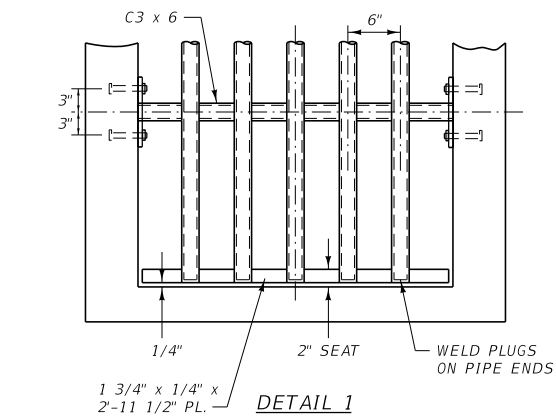
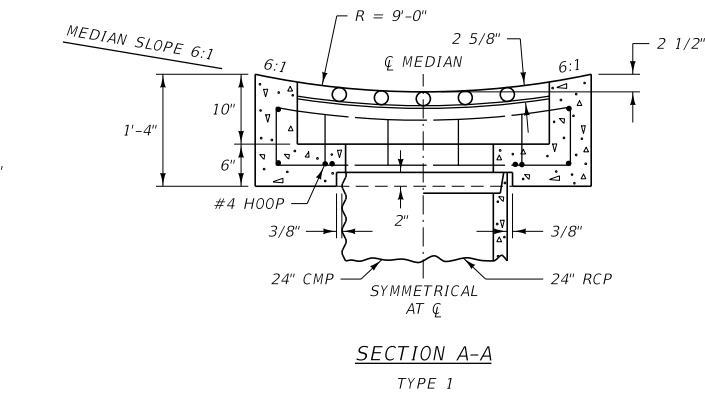
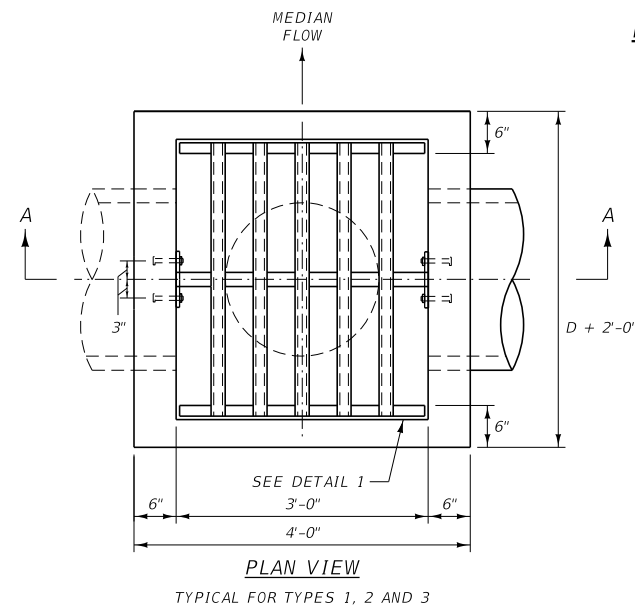


MEDIAN INLET

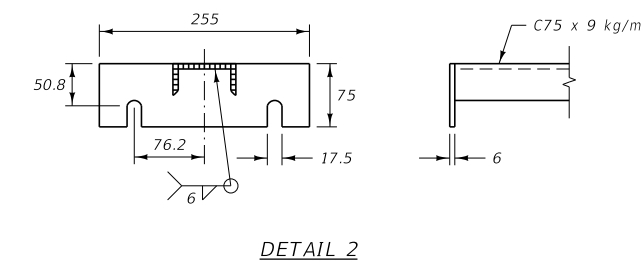
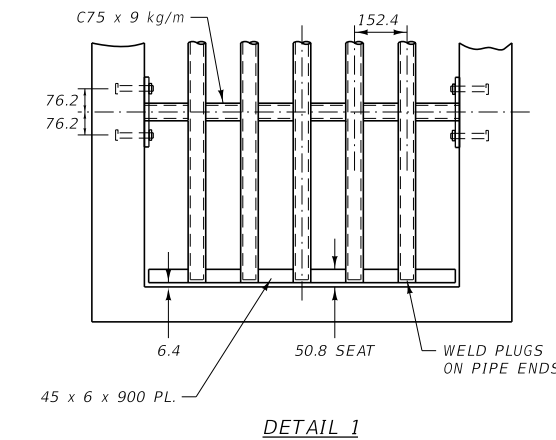
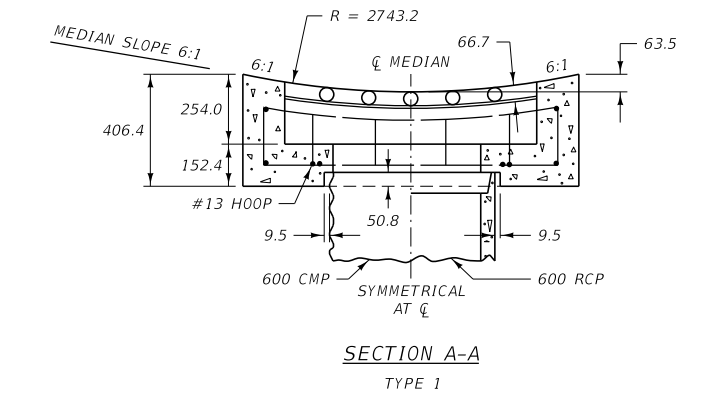
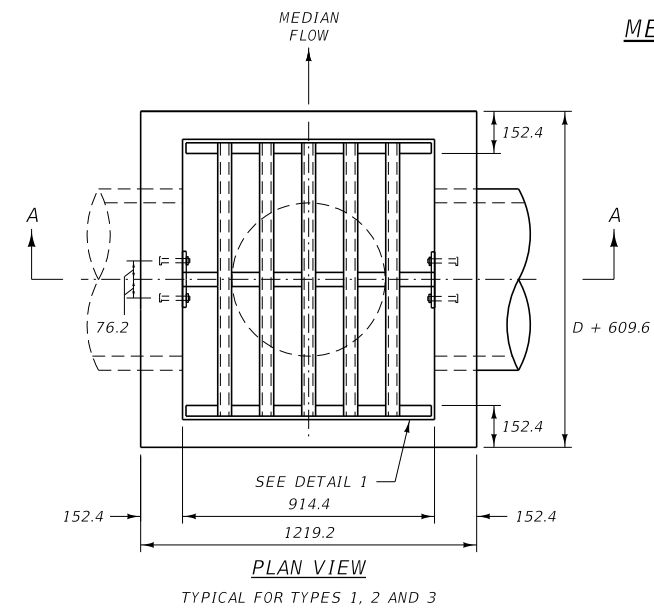


TYPE	GRATE AND REINFORCING STEEL (LB.) *		
	24"	30"	36"
1	50	~	~
2	85	95	105
3	85 ⊕	95 ⊕	105 ⊕
GRATE	165	185	210

* QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.
⊕ TYPE 3 IS A SPECIAL CASE TO BE FIGURED FOR THE PARTICULAR INSTALLATION.

- NOTE:
- PAINT ALL EXPOSED METAL PARTS WITH ONE COAT OF ZINC RICH PAINT AND TWO COATS OF ALUMINUM PAINT PER SECTION 710.
 - WHEN MEDIAN INLET COVER IS INSTALLED OVER PIPES LARGER THAN 36", WITHOUT ADEQUATE COVER TO PERMIT THE USE OF TYPE 1 INSTALLATION, PROVIDE A DETAIL OF THE INSTALLATION IN THE PLANS.

METRIC MEDIAN INLET



TYPE	GRATE AND REINFORCING STEEL (kg) *		
	600 mm	750 mm	900 mm
1	22.7	~	~
2	38.6	43.1	47.6
3	38.6 ⊕	43.1 ⊕	47.6 ⊕
GRATE	74.8	83.9	95.3

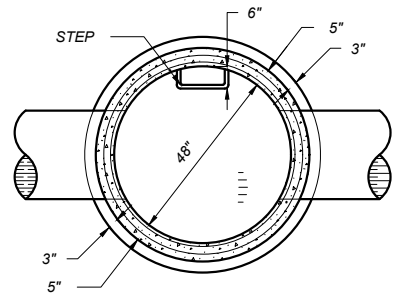
* QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.
⊕ TYPE 3 IS A SPECIAL CASE TO BE FIGURED FOR THE PARTICULAR INSTALLATION.

- NOTE:
- PAINT ALL EXPOSED METAL PARTS WITH ONE COAT OF ZINC RICH PAINT AND TWO COATS OF ALUMINUM PAINT PER SECTION 710.
 - WHEN MEDIAN INLET COVER IS INSTALLED OVER PIPES LARGER THAN 900 mm, WITHOUT ADEQUATE COVER TO PERMIT THE USE OF TYPE 1 INSTALLATION, PROVIDE A DETAIL OF THE INSTALLATION IN THE PLANS.

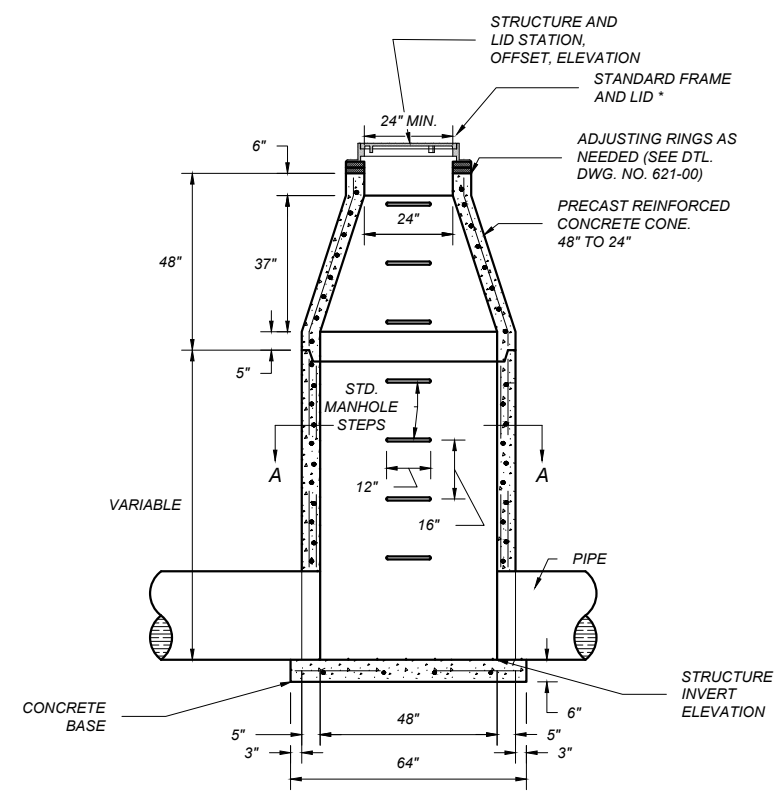
ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

TYPE	CLASS GENERAL CONCRETE OR EQUAL (CUBIC METERS) *					
	600 mm		750 mm		900 mm	
1	0.31	0.31	~	~	~	~
2	0.76	0.76	0.84	0.76	0.92	0.84
3	0.69 ⊕	0.69 ⊕	0.76 ⊕	0.69 ⊕	0.76 ⊕	0.69 ⊕

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 604, 710	DWG. NO. 604-00
MEDIAN INLET	
MDT★ MONTANA DEPARTMENT OF TRANSPORTATION	



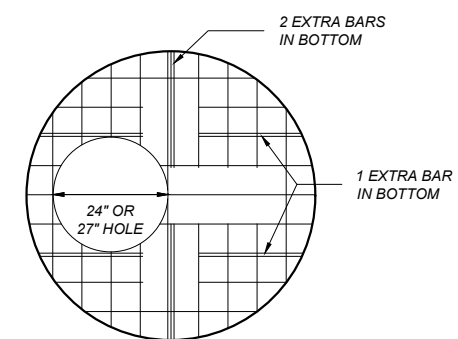
TYPE 1 SECTION A-A



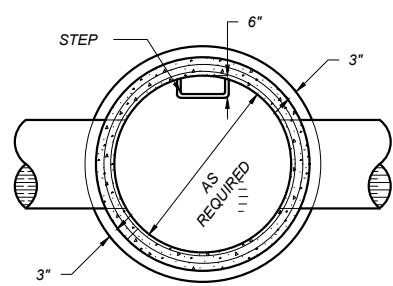
TYPE 1 ELEVATION

TYPE 1 MANHOLE

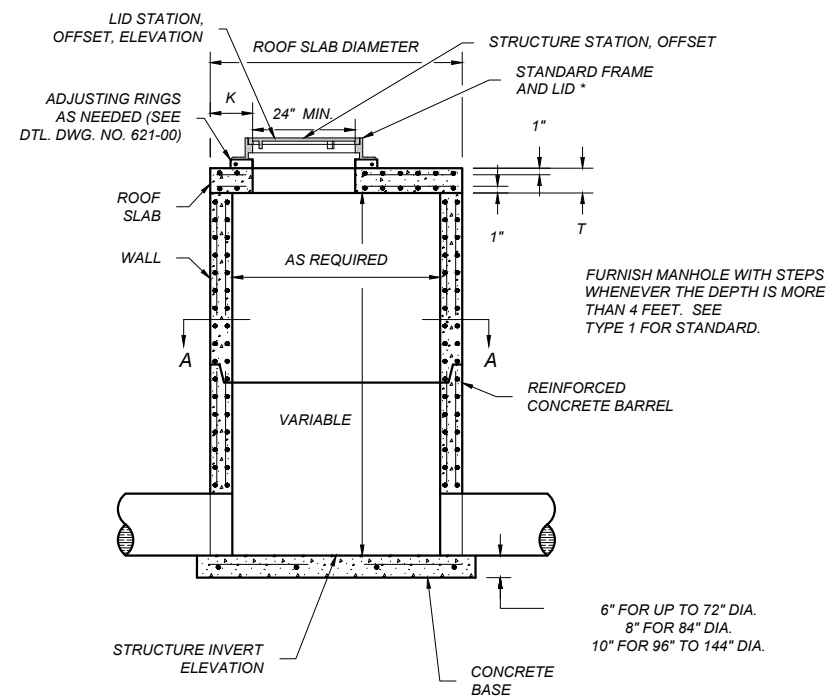
• MINIMUM WEIGHT FOR FRAME AND LID IS 400 LB. TOOL RING AND COVER TO A MACHINE FIT. A LIGHTER FRAME AND LID MAY BE USED IF APPROVED BY THE FACILITY OWNER RESPONSIBLE FOR MAINTENANCE OF THE MANHOLE. SEE QUALIFIED PRODUCTS LIST FOR APPROVED LIDS.



TYPE 3 MANHOLE ROOF SLAB



TYPE 3 SECTION A-A



TYPE 3 ELEVATION

TYPE 3 MANHOLE

- NOTES:
- UPPER PART IS A CONE TO REDUCE DIAMETER FROM 48" TO 24". CUT BOTTOM OF LOWER SECTION SQUARE TO FIT BASE. GROUT JOINT BETWEEN BASE AND WALL. A GROUT CONSISTING OF ONE PART PORTLAND CEMENT AND TWO PARTS APPROVED SAND MAY BE USED; AN APPROVED PREMIXED GROUT, AVAILABLE COMMERCIALY, MAY BE USED.
 - THE CONSTRUCTION AND REINFORCEMENT OF THE BASE FOR EACH TYPE MUST BE COMPATIBLE WITH THE CONDITIONS AND THE WEIGHT OF THE SUPER-STRUCTURE. AASHTO M 199 PROVIDES FOR 4000 PSI CONCRETE. THE MIX CALLS FOR 6 SACKS OF CEMENT PER CUBIC YARD. REINFORCEMENT SHOWN IS ILLUSTRATIVE ONLY. SEE AASHTO M 199.
 - THE ECCENTRIC CONE TRANSITION WILL BE PERMITTED WHEN ITS USE WILL BE AS GOOD OR BETTER THAN THE ONES SHOWN, OR IF IT IS MORE ADAPTABLE TO EXISTING CONDITIONS.
 - IN MANHOLES, USE STEPS THAT ARE METALLIC AND COATED WITH COPOLYMER POLYPROPYLENE, OR AN APPROVED EQUAL. THE MINIMUM DESIGN LIVE LOAD FOR A SINGLE CONCENTRATED LOAD IS 300 POUNDS.

INLET AND TYPE 3 MANHOLE ROOF SLAB					
BARREL DIA. #	SLAB DIA.	T	K ##	BOTTOM BARS	TOP BARS
48"	58"	6"	6"	#4 AT 6"	~
60"	72"	8"	7"	#4 AT 6"	#3 AT 6"
72"	86"	8"	8"	#4 AT 6"	#3 AT 6"
84"	100"	8"	9"	#4 AT 4"	#4 AT 4"
96"	114"	8"	9"	#5 AT 4"	#4 AT 4"
108"	128"	8"	9"	#5 AT 4"	#4 AT 4"
120"	142"	8"	9"	#5 AT 4"	#4 AT 4"
144"	168"	8"	9"	#5 AT 4"	#4 AT 4"

AVAILABLE MANHOLE AND INLET BARREL DIAMETERS.
K DOES NOT APPLY TO DROP INLETS AND CURB INLETS. CENTER THE OPENING IN THE BARREL.

DETAILED DRAWINGS

REFERENCE DWG. NO.
STANDARD SPEC. 604-02
SECTION 604.711

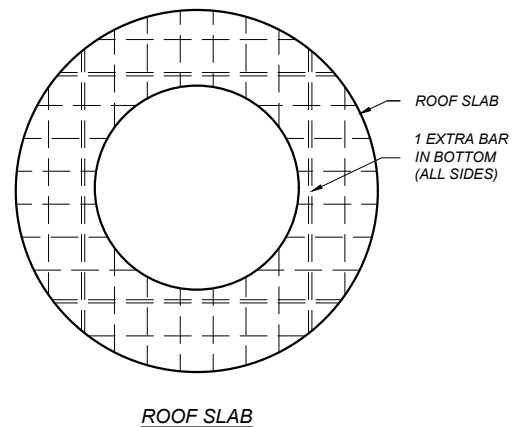
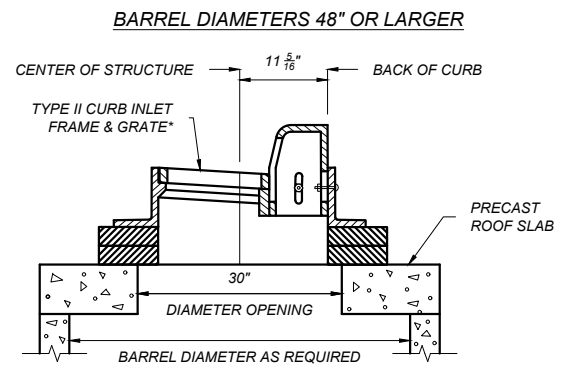
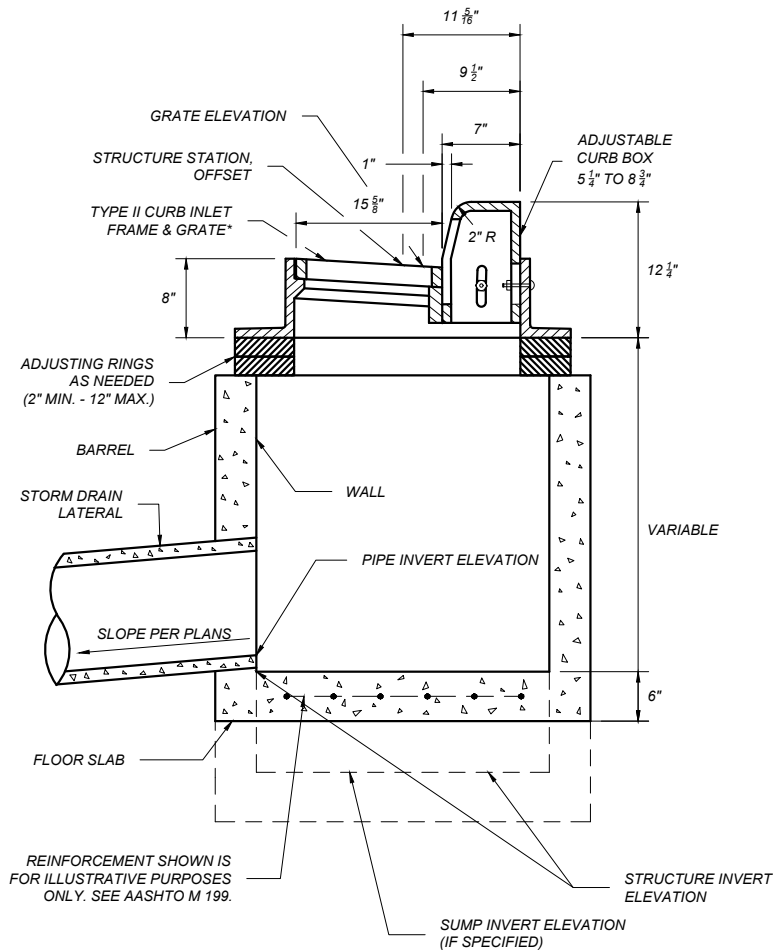
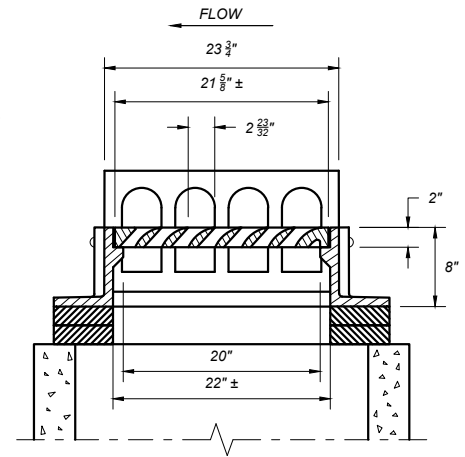
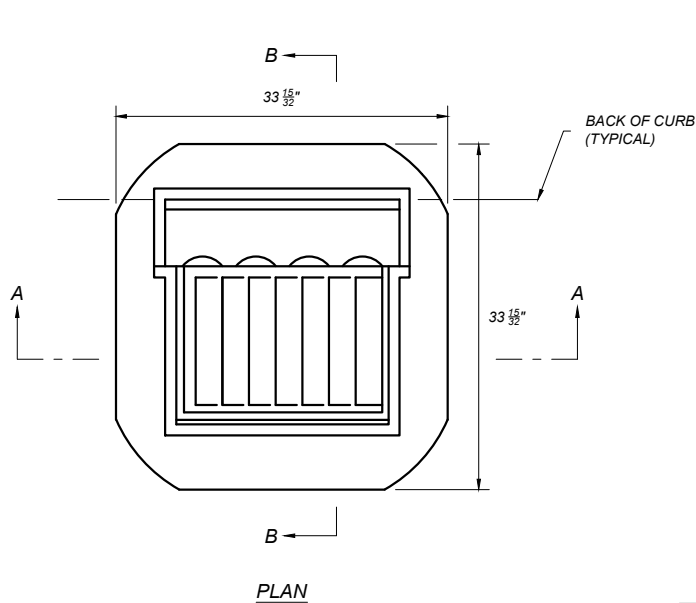
CONCRETE MANHOLE

EFFECTIVE: JAN 23, 2020

MONTANA
Department of Transportation

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--REVISED--
JUN 27, 2024
JAN 15, 2026



SEE DETAILED DRAWING NO. 604-02 FOR DIAMETER, SLAB THICKNESS AND REINFORCING REQUIREMENTS. CENTER 30" ROOF SLAB OPENING FOR ALL BARREL DIAMETERS.

NOTES:

SEE PLANS FOR LOCATIONS AND QUANTITIES.

SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED FROM THE FLOWLINE OF THE CURB AND GUTTER SECTION INTO THE INLET.

ALL CONCRETE IS CLASS GENERAL OR APPROVED EQUAL.

* SEE QUALIFIED PRODUCTS LIST FOR APPROVED GRATES. DIMENSIONS SHOW BASED ON NEENAH R-3286-8V.

DETAILED DRAWINGS

REFERENCE DWG. NO.
STANDARD SPEC. 604-03
SECTION 604.708

CURB INLET TYPE II

EFFECTIVE: JAN 23, 2020

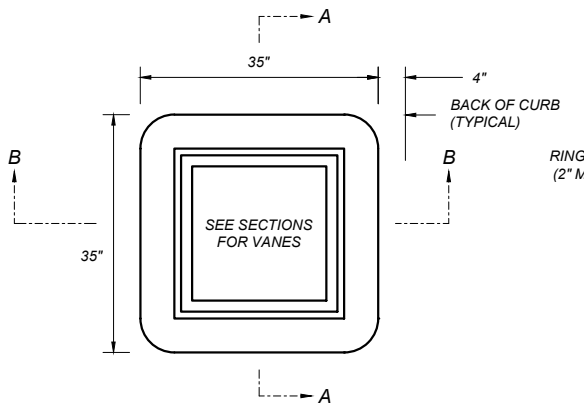


MONTANA
Department of Transportation

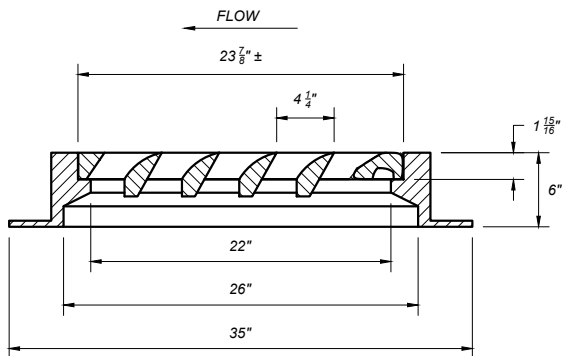
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JAN 15, 2026

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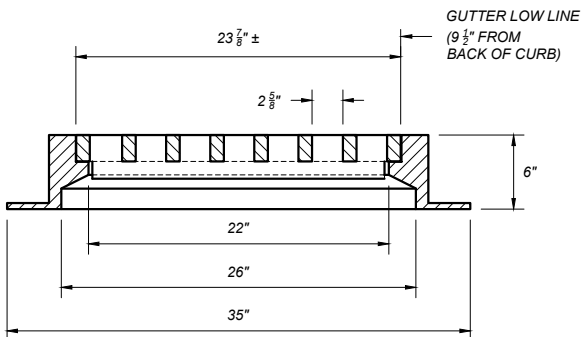
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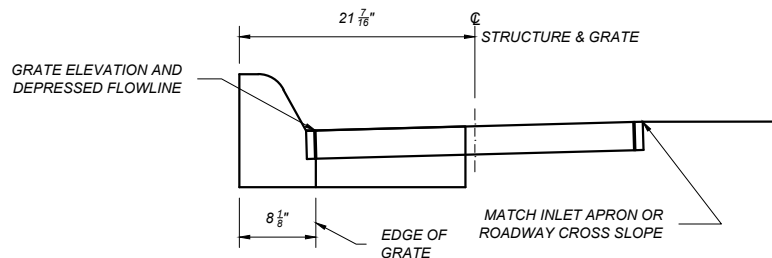
PLAN



SECTION A-A



SECTION B-B



CURB TO GRATE

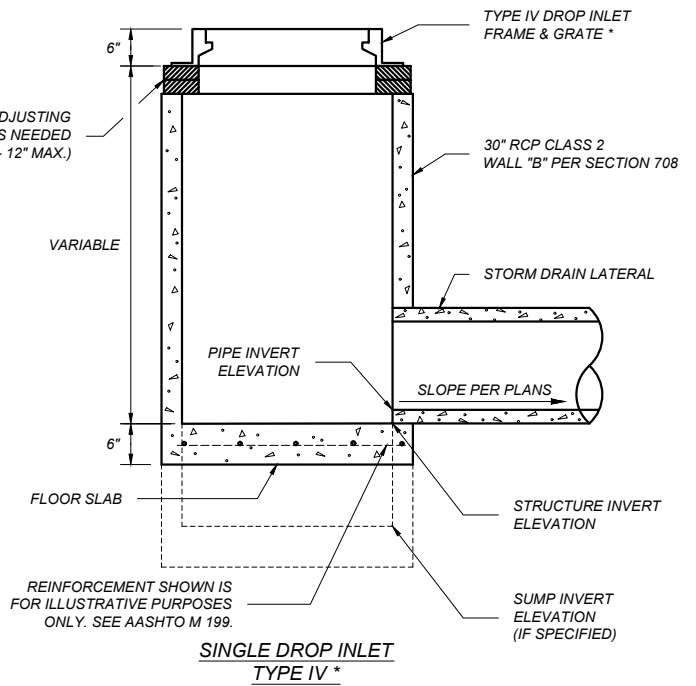
NOTES:

SEE PLANS FOR LOCATIONS AND QUANTITIES.

SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED FROM THE FLOWLINE OF THE CURB AND GUTTER SECTION INTO THE INLET.

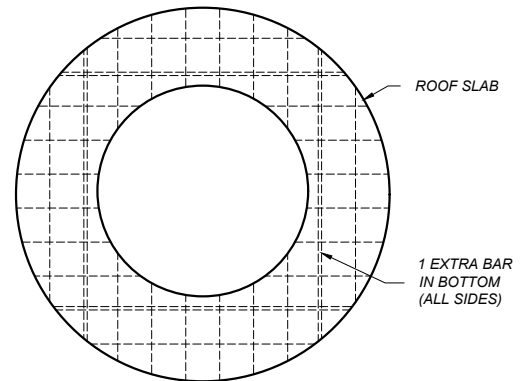
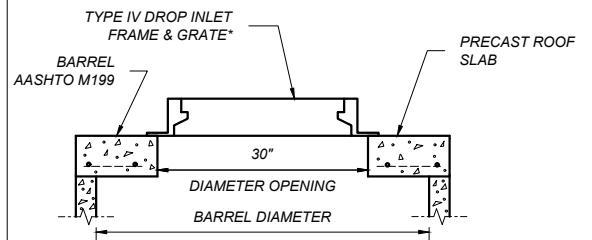
ALL CONCRETE IS CLASS GENERAL OR APPROVED EQUAL

* SEE QUALIFIED PRODUCTS LIST FOR APPROVED GRATES. DIMENSIONS SHOWN BASED ON NEENAH R-3210-L.



**SINGLE DROP INLET
TYPE IV ***

BARREL DIAMETERS 48" OR LARGER



ROOF SLAB

SEE DETAILED DRAWING NO. 604-02 FOR DIAMETER, SLAB THICKNESS AND REINFORCING REQUIREMENTS. CENTER 30" ROOF SLAB OPENING FOR ALL BARREL DIAMETERS.

DETAILED DRAWINGS

REFERENCE DWG. NO.
STANDARD SPEC. 604-04
SECTION 604.708

DROP INLET TYPE IV

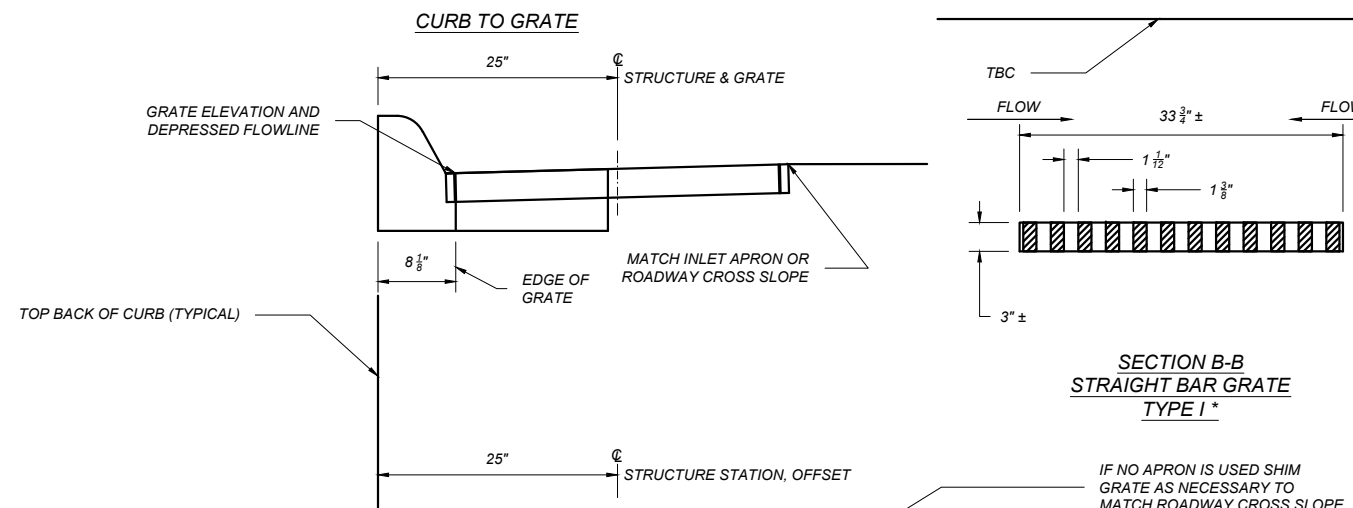
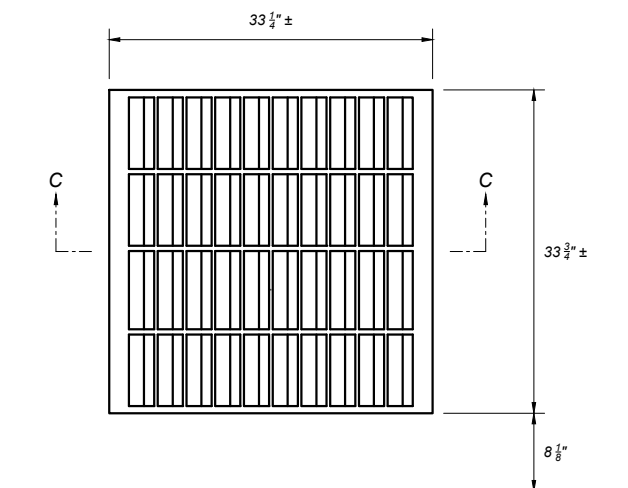
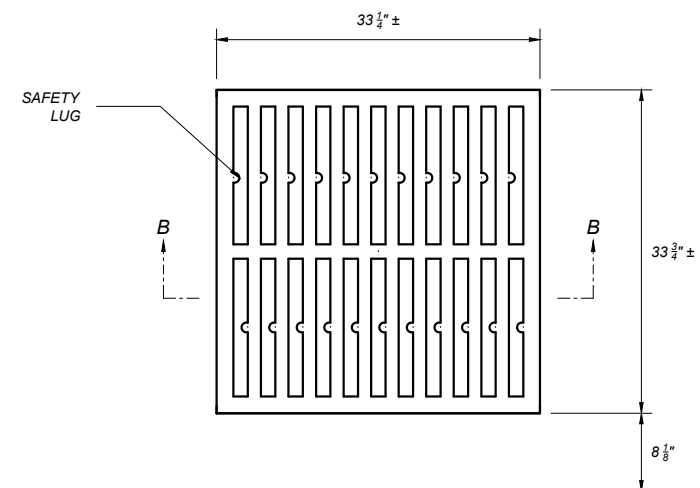
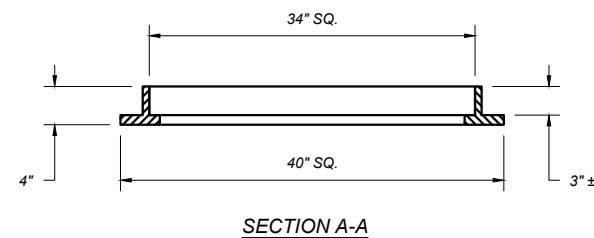
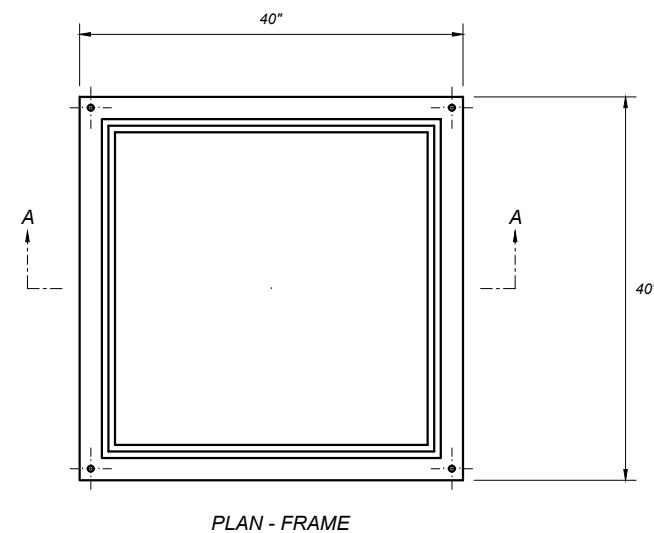
EFFECTIVE: JAN 23, 2020



--REVISED--
JAN 15, 2026

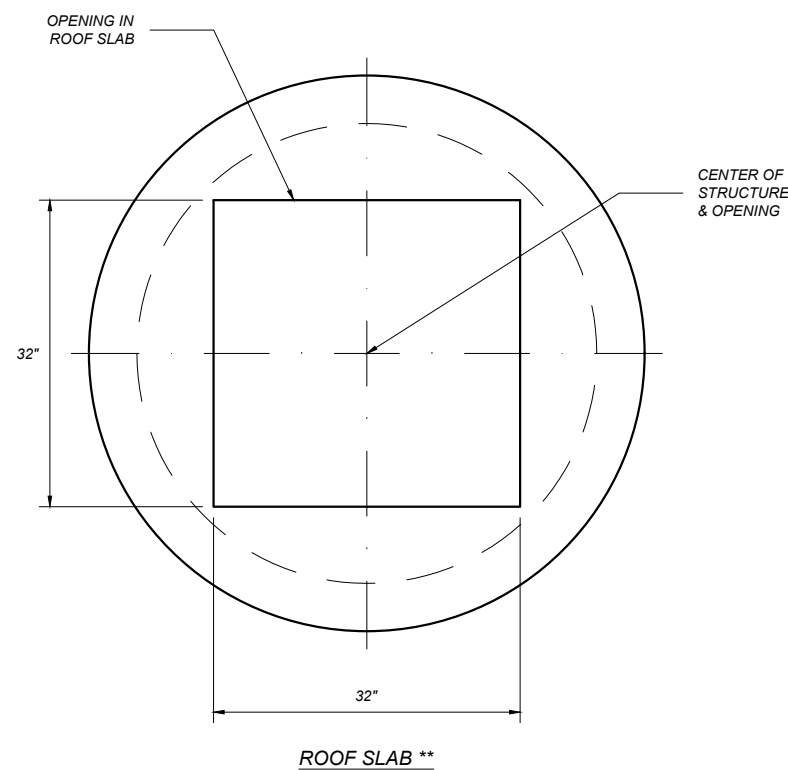
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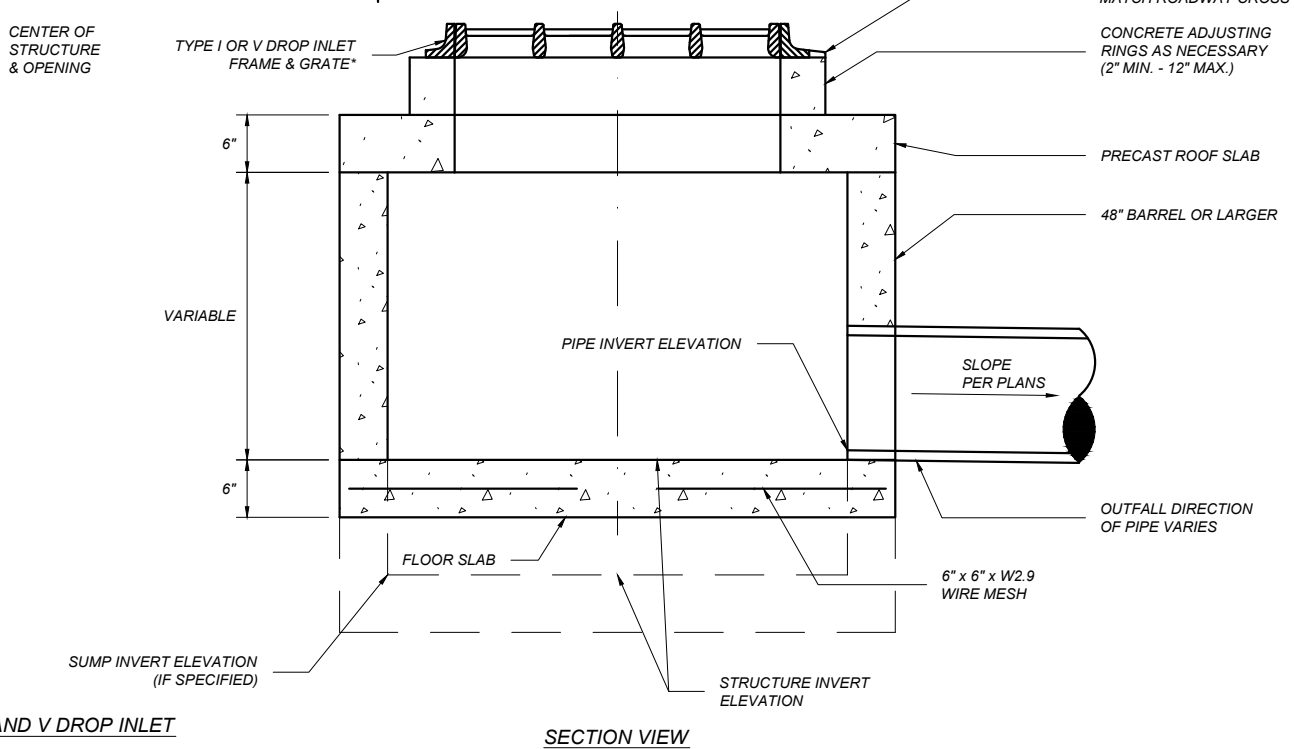


SECTION B-B
STRAIGHT BAR GRATE
TYPE I *

SECTION C-C
VANE STYLE GRATE
TYPE V *



TYPE I AND V DROP INLET



NOTES:

ALL CONCRETE IS CLASS GENERAL OR APPROVED EQUAL.

SEE PLANS FOR LOCATIONS AND QUANTITIES.

SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED FROM THE FLOWLINE OF THE CURB AND GUTTER SECTION INTO THE INLET.

STANDARD UNLESS OTHERWISE NOTED ON PLANS.

TYPE I AND TYPE V GRATES ARE INTERCHANGEABLE WITH THE SAME FRAME AND HAVE THE ABILITY TO BE ROTATED 90 DEGREES IN ANY DIRECTION. INSTALL GRATE TO MATCH FLOW DIRECTION SHOWN.

PROVIDE SAFETY LUG ON STRAIGHT BAR GRATE BETWEEN EACH BAR.

*SEE QUALIFIED PRODUCTS LIST FOR APPROVED GRATES. DIMENSIONS SHOWN BASED ON D&L I-3421101 AND D&L I-3421-02.

**SEE NOTE 2 ON DETAILED DRAWING NO. 604-02 FOR ROOF SLAB REQUIREMENTS. CENTER THE SQUARE 32" ROOF SLAB OPENING FOR ALL BARREL DIAMETERS.

DETAILED DRAWINGS

REFERENCE DWG. NO.
STANDARD SPEC. 604-14
SECTION 604

DROP INLETS TYPE I AND V

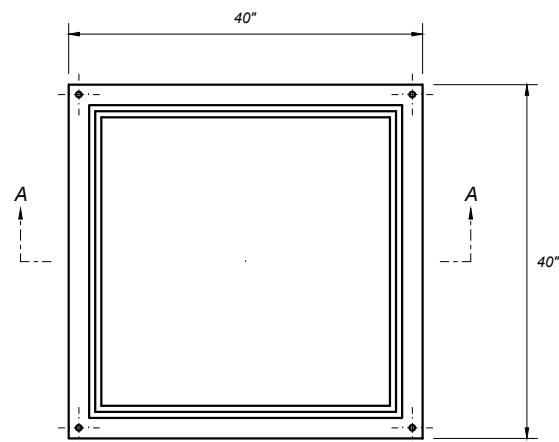
EFFECTIVE: JAN 23, 2020



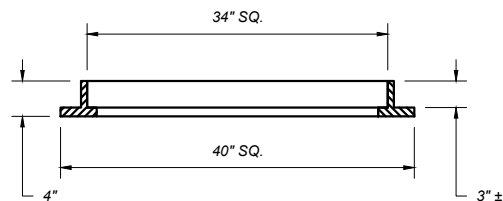
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JAN 15, 2026

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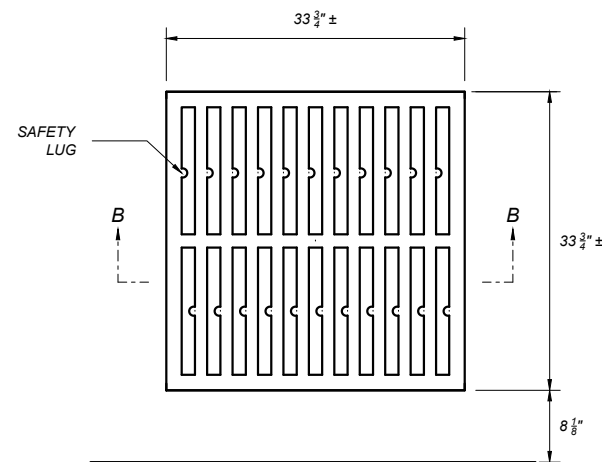
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PLAN - FRAME



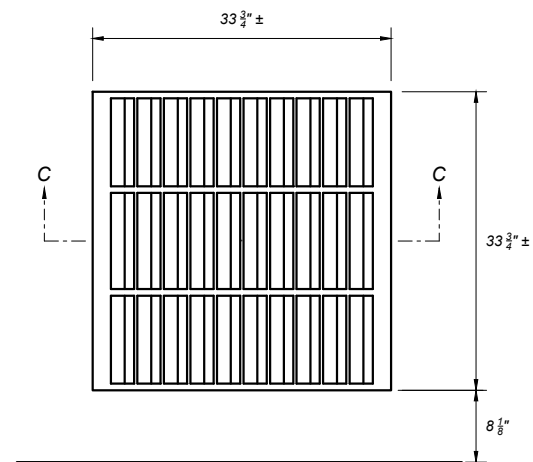
SECTION A-A



SECTION B-B

STRAIGHT BAR GRATE

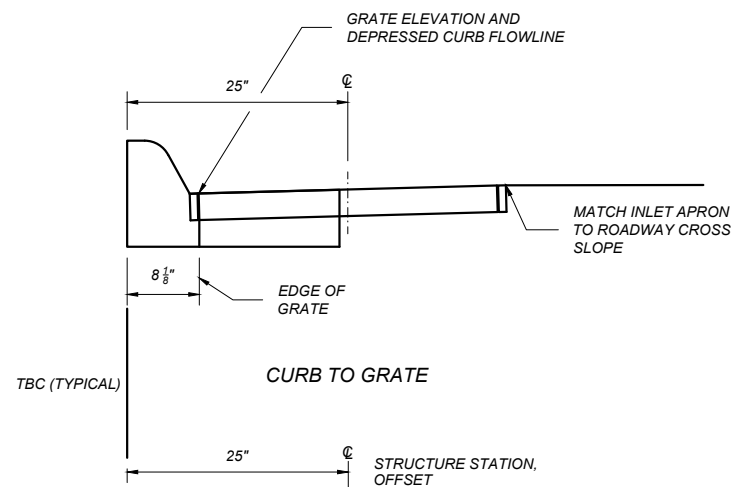
TYPE III *



SECTION C-C

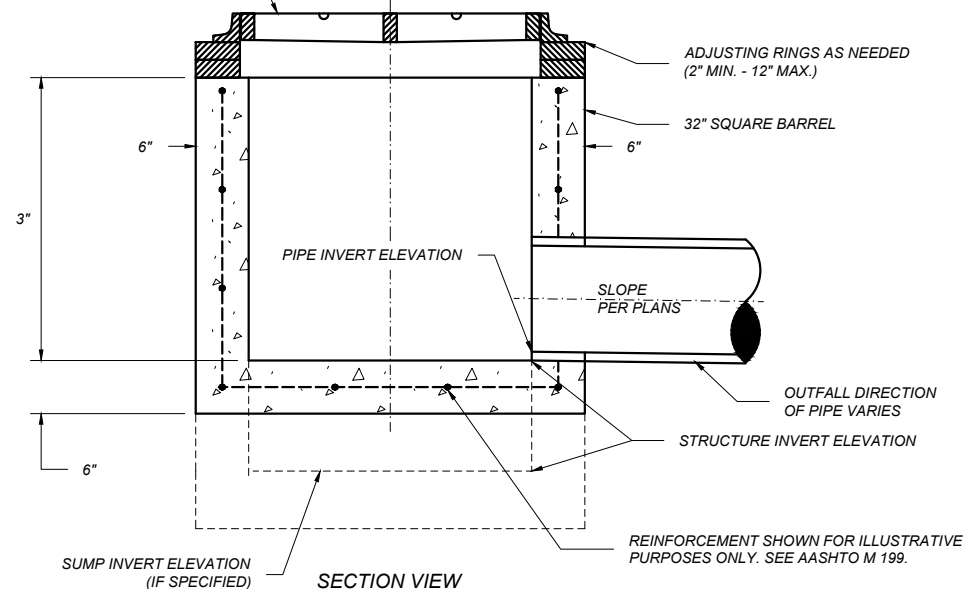
VANE STYLE GRATE

TYPE VI *



CURB TO GRATE

TYPE III OR VI DROP INLET
FRAME AND GRATE*



SECTION VIEW

TYPE III AND VI DROP INLET

NOTES:

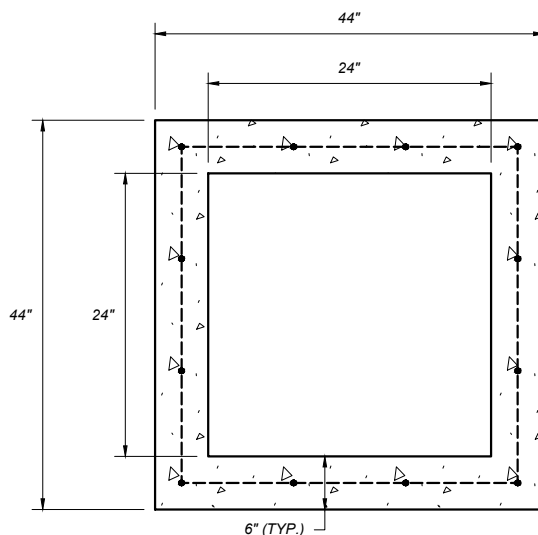
SEE PLANS FOR LOCATIONS AND QUANTITIES.

SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED FROM THE FLOWLINE OF THE CURB AND GUTTER SECTION INTO THE INLET.

TYPE III AND TYPE VI GRATES ARE INTERCHANGEABLE WITH THE SAME FRAME AND HAVE THE ABILITY TO BE ROTATED 90 DEGREES IN ANY DIRECTION. INSTALL GRATE TO MATCH FLOW DIRECTION SHOWN.

PROVIDE SAFETY LUG ON STRAIGHT BAR GRATE BETWEEN EACH BAR.

* SEE QUALIFIED PRODUCTS LIST FOR APPROVED GRATES. DIMENSIONS SHOWN BASED ON D&L I-3421-01 AND D&L I-3421-02.



TOP VIEW

DETAILED DRAWINGS

REFERENCE DWG. NO.
STANDARD SPEC. 604-16
SECTION 604

DROP INLETS TYPE III AND VI

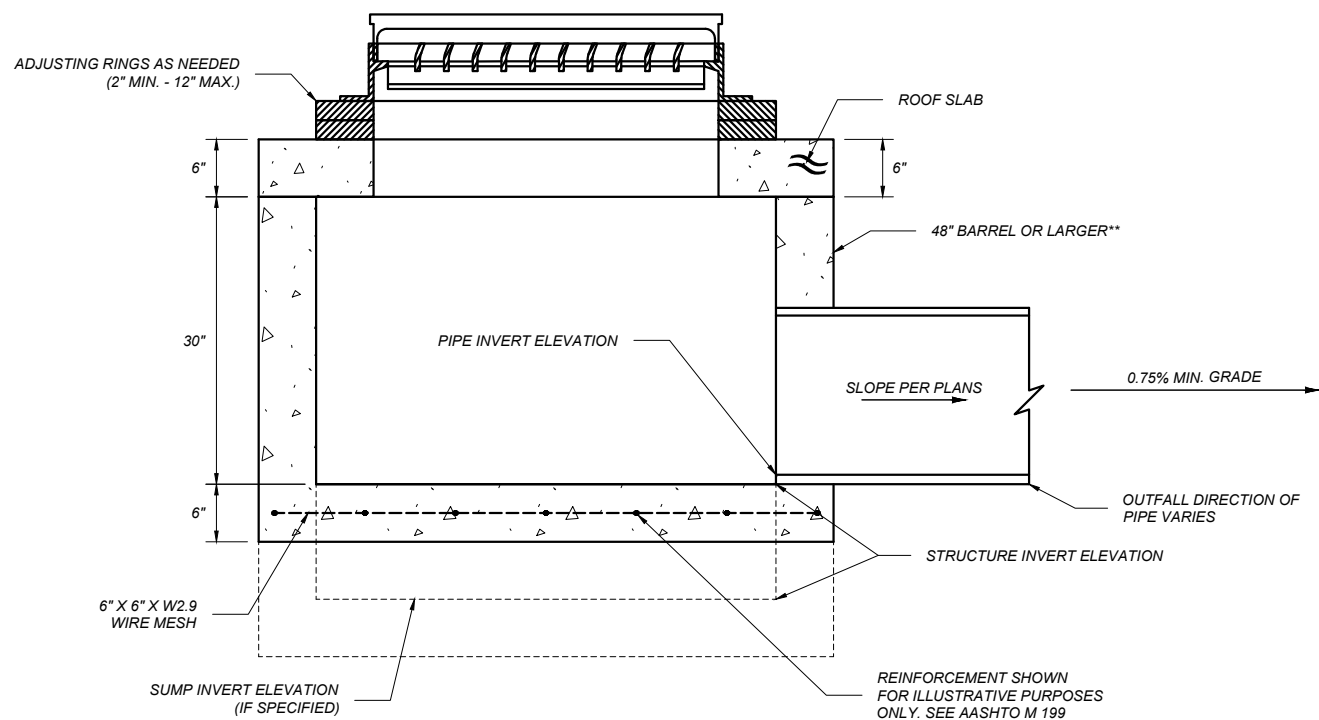
EFFECTIVE: JAN 23, 2020



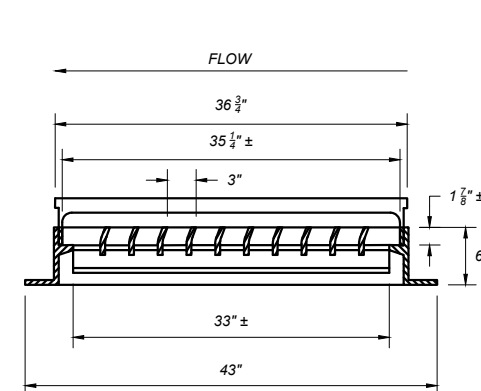
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JAN 15, 2026

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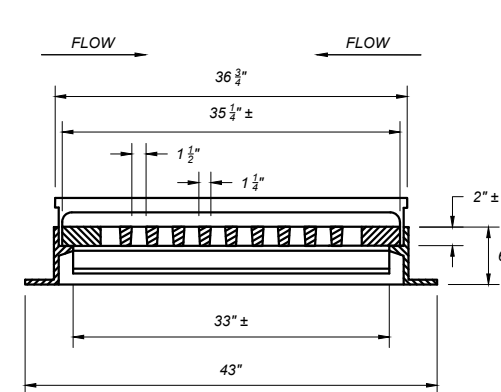
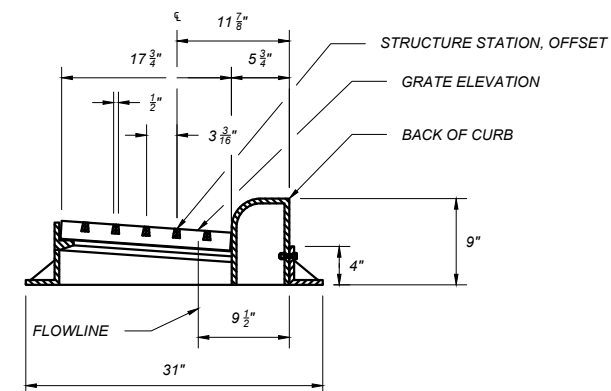
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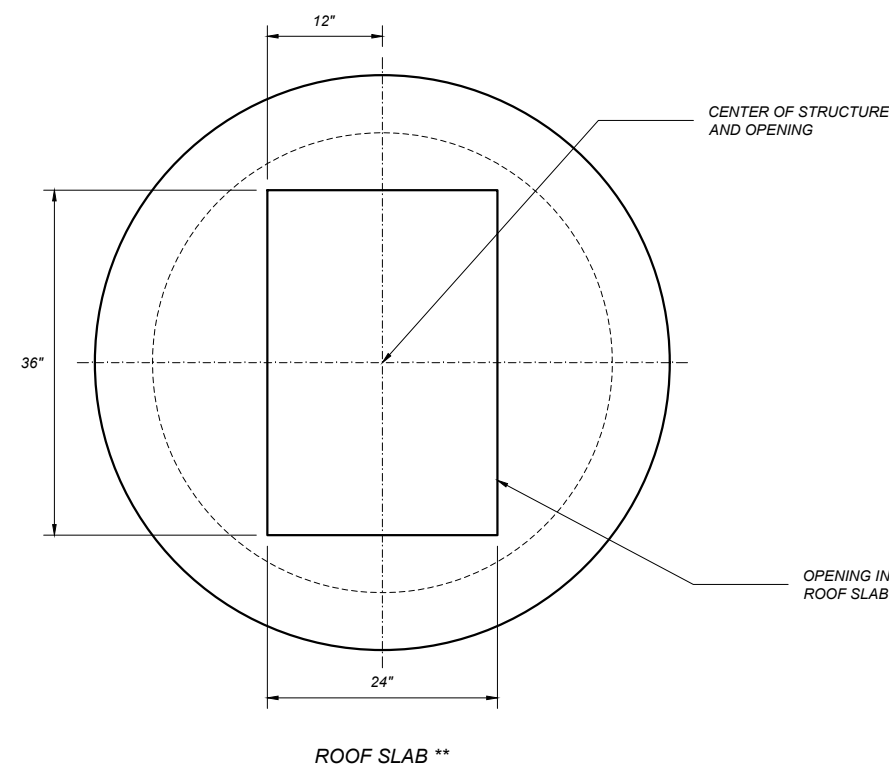
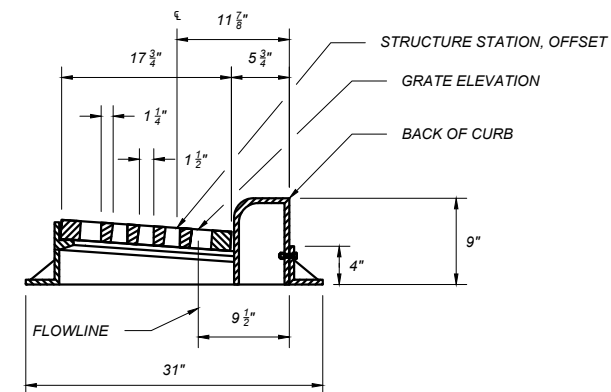
SECTION VIEW (TYPE B SHOWN)




TYPE B
CURVED VANE STYLE *



TYPE A
STRAIGHT BAR STYLE *



- NOTES:
- SEE PLANS FOR LOCATIONS AND QUANTITIES.
 - SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED FROM THE FLOWLINE OF THE CURB AND GUTTER SECTION INTO THE INLET.
 - ALL CONCRETE IS CLASS GENERAL OR APPROVED EQUAL.
 - * SEE QUALIFIED PRODUCTS LIST FOR APPROVED GRATES. DIMENSIONS SHOWN BASED ON NEENAH R-3067 AND R-3067-L.
 - ** SEE DETAILED DRAWING NO. 604-02 FOR DIAMETER, SLAB THICKNESS AND REINFORCING REQUIREMENTS. CENTER THE RECTANGULAR 36\"X24\" ROOF SLAB OPENING FOR ALL BARREL DIAMETERS.

DETAILED DRAWINGS	
REFERENCE	DWG. NO.
STANDARD SPEC.	604-18
SECTION 604	
TYPE A AND B CURB INLETS	
EFFECTIVE: JAN 23, 2020	
	
<div> <div> --REVISED-- JAN 15, 2026 </div> <div> 12/12/2025 11:02 AM STDDRD604018.DWG </div> </div>	